

AJ

Method of limiting the welding energy transmitted to the workpiece in ultrasonic plastic welding

Patent Number: DE3138520

Publication date: 1983-01-05

Inventor(s): KLIMES WOLFGANG DIPL ING [DD]; PUNZEL JUERGEN DIPL PHYS DR RE [DE]

Applicant(s): SCHREIBGE STAMMBETRIEB MARKANT [DD]

Requested Patent: DE3138520

Application Number: DE19813138520 19810928

Priority Number(s): DD19800226399 19801222

IPC Classification: B29C27/08

EC Classification: B29C65/00P12, B29C65/08

Equivalents: DD154343

Abstract

Method of limiting the welding energy transmitted to the workpiece in ultrasonic plastic welding with the aim when welding plastic mouldings of melting only a defined volume in the welding zone and subsequently interrupting further energy supply via the vibratory unit. For this purpose, an electronic circuit forms a value proportional to the mechanical energy delivered by the ultrasonic transducer. If this value exceeds a limit value, the energy supply to the transducer is interrupted and the welding process is ended. The electrical no-load power of the ultrasonic transducer is not registered when forming the energy-proportional value.

Data supplied from the esp@cenet database - I2